IN THE CLAIMS

- 1. (original) A data collection system, comprising:
 - a data input form adapted to receive data,

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- a message queue for receiving the data from the data input form, and temporarily managing the data until the data collection system can process the data,
- a temporary data storage for temporarily storing the data received by the message queue while waiting for the data collection system to process the data,
- a transaction manager for receiving the data from the message queue and processing the data,
- a data logger, for logging the processing transactions of the transaction manager,
- a data loader for receiving the data from the transaction manager and preparing the data for storage, and
- a data storage device, for receiving the data from the data loader.
- 2. (original) The data collection system of claim 1, wherein the input form resides on a presentation layer of the data collection system.
- 3. (original) The data collection system of claim 1, wherein the message queue, temporary data storage, transaction manager, data logger, and data loader all reside on a business logic layer of the data collection system.
- 4. (original) The data collection system of claim 1, wherein the data storage device resides on a data service layer of the data collection system.
- 5. (original) The data collection system of claim 1, further comprising an output form for presenting statistically manipulated historical trends of the data.
- 6. (original) The data collection system of claim 1, further comprising a statistical process control engine for receiving the data from at least one of the transaction manager and the data storage device, and statistically manipulating the data.

- 7. (original) The data collection system of claim 1, further comprising a state simulation engine for gathering and providing state data between the data collection system and a statistical process control engine.
- 8. (original) The data collection system of claim 1, wherein the data input form is implemented as a web object that is readable with a web browser.
- 9. (original) The data collection system of claim 1, further comprising a web server for serving the data input form.
- 10. (original) A data collection system, comprising:
 - a presentation layer including,
 - a data input form adapted to receive data, and
 - an output form for presenting statistically manipulated historical trends of the data,
 - a business logic layer including,

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- a message queue for receiving the data from the data input form, and temporarily managing the data until the data collection system can process the data,
- a temporary data storage for temporarily storing the data received by the message queue while waiting for the data collection system to process the data,
- a transaction manager for receiving the data from the message queue and processing the data,
- a data logger, for logging the processing transactions of the transaction manager, and
- a data loader for receiving the data from the transaction manager and preparing the data for storage, and
- a data service layer including,
- a data storage device, for receiving the data from the data loader.

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- 11. (original) The data collection system of claim 10, further comprising a statistical process control engine for receiving the data from at least one of the transaction manager and the data storage device, and statistically manipulating the data.
- 12. (original) The data collection system of claim 10, further comprising a state simulation engine for gathering and providing state data between the data collection system and a statistical process control engine.
- 13. (original) The data collection system of claim 10, wherein the data input form is implemented as a web object that is readable with a web browser.
- 14. (original) The data collection system of claim 10, further comprising a web server for serving the data input form.
- 15. (original) A data collection system, comprising:
 - a data input form adapted to receive data,

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- a message queue for receiving the data from the data input form, and temporarily managing the data until the data collection system can process the data,
- a temporary data storage for temporarily storing the data received by the message queue while waiting for the data collection system to process the data,
- a transaction manager for receiving the data from the message queue and processing the data,
- a data logger, for logging the processing transactions of the transaction manager,
- a data loader for receiving the data from the transaction manager and preparing the data for storage,
- a data storage device, for receiving the data from the data loader,
- a statistical process control engine for receiving the data from at least one of the transaction manager and the data storage device, and statistically manipulating the data,
- a state simulation engine for gathering and providing state data between the data collection system and a statistical process control engine, and

- an output form for presenting statistically manipulated historical trends of the data.
- 16. (original) The data collection system of claim 15, wherein the input form resides on a presentation layer of the data collection system.
- 17. (original) The data collection system of claim 15, wherein the message queue, temporary data storage, transaction manager, data logger, and data loader all reside on a business logic layer of the data collection system.
- 18. (original) The data collection system of claim 15, wherein the data storage device resides on a data service layer of the data collection system.
- 19. (original) The data collection system of claim 15, wherein the data input form is implemented as a web object that is readable with a web browser.
- 20. (original) The data collection system of claim 15, further comprising a web server for serving the data input form.